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**ABSTRACT**

The libraries of the University of Maine System, Bates, Bowdoin, and Colby Colleges have installed integrated systems which are being linked electronically and are designed to promote the maximum sharing of library resources, thereby significantly enhancing the teaching and research capabilities of each institution. The institutions propose to take a new direction in information sharing among libraries via computer by jointly acquiring two standard periodical databases and sharing them electronically. This grant proposal requests support to provide access to subject periodical indexes via the linked systems, and regional and national access to the serial holding of the principal libraries. Funds will be used to purchase software and software licenses to load and index two online periodical indexes on the University of Maine System Library computer, and software to create online a Maine Union List of serial holdings information indexed by the databases from these and other Maine libraries. In applying for this grant the aim was to facilitate and speed user access to materials over and above those in the collections of any one of the participating libraries through a common interface, to initiate cooperative collection development efforts among the principal academic libraries in Maine, and to strengthen regional and statewide resource sharing. This project will demonstrate how academic libraries can work together to meet their increasing need for electronic access to information by sharing the cost burden and the information. (Author/BBM)

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## A COLLEGE LIBRARY TECHNOLOGY AND COOPERATIVE GRANTS PROGRAM

### A COMBINATION GRANT PROPOSAL

#### Enhancing Access to Journal Literature

Submitted by the  
**University of Maine System Libraries**  
on behalf of  
**University of Maine System Libraries,**  
**Bates College Library, Bowdoin College Library**  
**and Colby College Library**

January 14, 1991

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Marilyn Lutz

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**Applicant:** University of Maine System Libraries  
Raymond H. Fogler Library  
University of Maine  
Orono, Maine 04469

**Project Title:** Enhancing Access to Journal Literature

**Project Director:** Marilyn Lutz  
Systems Librarian  
Raymond H. Fogler Library  
University of Maine  
Orono, Maine 04469  
(207) 581-1658

**Funding Level:** \$ 158,026.00  
**Project Period:** October 1, 1991 to September 30, 1992

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The libraries of the University of Maine System, Bates, Bowdoin and Colby Colleges have installed integrated systems which are being linked electronically and designed to promote the maximum sharing of library resources, thereby significantly enhancing the teaching and research capabilities of each institution. The institutions propose to take a new direction in information sharing among libraries via computer by jointly acquiring two standard periodical databases and sharing them electronically.

This grant proposal requests support to provide access to subject periodical indexes via the linked systems, and regional and national access to the serial holdings of the principal libraries. Funds will be used to purchase software and software licenses to load and index two online periodical indexes on the University of Maine System Library computer, and to enter in the OCLC Union List Subsystem serials holdings information from these and other Maine libraries indexed by the databases.

In applying for this grant we are seeking to facilitate and speed user access to materials over and above those in the collections of any one of the participating libraries through a common interface, to initiate cooperative collection development efforts among the principal academic libraries in Maine, and to strengthen regional and statewide resource sharing. This project will demonstrate how academic libraries can work together to meet their increasing need for electronic access to information by sharing the cost burden and the information.

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### PART III

#### BACKGROUND

The seven libraries of the University of Maine System, together with Colby, Bowdoin and Bates College libraries, collectively constitute the vast majority of academic library resources in Maine. As a consortium the libraries have entered into a cooperative agreement with the goal of addressing the fundamental needs of users in the state where limited resources are distributed over a wide geographic area. A concerted effort is being made to create a statewide library network for higher education which links academic library resources and greatly enhances the research and teaching capabilities of each institution.

The University of Maine System and Colby, Bates and Bowdoin College libraries have installed integrated automation library systems designed to promote maximum sharing of library resources. The bibliographic data bases of each institution provide online public access catalogs with subsystems for the major processing functions of acquisitions, cataloging, the control of serial publications and the loaning of materials. The databases are linked using the National Science Foundations's Internet network. Nearnét, the New England segment of this network, is the link within Maine among the institutions, and provides access outside of Maine to a burgeoning array of resources such as online encyclopedias, supercomputing facilities and abstracting services. From terminals on each campus, using an identical interface, students and faculty may search the catalogs of all libraries, and have access to the use of materials from all libraries. Direct access to collections at each library is simple and convenient because a search of the other library catalogs appears as a menu item on the library computer screens at all locations (currently being implemented). To the user information is retrieved from a single source, a unified environment.

### Automation at University of Maine System Libraries

The University of Maine System is a statewide system of seven independent, public institutions of higher education. It is operated by a single Board of Trustees, which is appointed by the Governor. The chief academic and administrative officer for the systems is the Chancellor, who is responsible to the Board of Trustees. The campus libraries and branches who report to their respective presidents, are located on ten campuses and include regional centers and over 25 off campus sites serving the Community College of Maine program. The libraries are linked only by their shared online union catalog.

Guided by a philosophy of cooperation and a commitment to broad and equitable access to information, automation planning for the UMS libraries began in the early 1980s. In 1986 a bond referendum provided funds targeted by the people of Maine to enhance patron access to library collections. The first phase of the Library automation Project called for linking the seven libraries and eleven community college of Maine regional centers in a network of bibliographic resources. An integrated library automation system was implemented in 1988. Along with the online catalogs for the local library, the system provides access to a union catalog for the holdings of all UMS libraries, as well as support for cataloging, acquisitions, serials management and circulation.

In the Spring of 1991 the collections of the Maine State Library and the Law and Legislative Reference Library will be added to the union catalog of the University System, thereby providing online access to these resources to the larger academic library community, and increasing the effectiveness with which patrons can locate and request needed library materials.

### Automation at Colby, Bowdoin and Bates Libraries

Planning for library automation at Colby, Bowdoin and Bates began in 1985 when an analysis of the respective collections indicated considerably less overlap than expected. A year later implementation and financing plans for the purchase of a linked automated catalog were under discussion, and in 1987 a request for proposals was circulated to vendors. The system developed by Innovative Interfaces, Inc. in collaboration with Digital Equipment, Corporation was found to best fit library needs. At the same time, implementation of the system was already underway at the University of Maine System where a close relationship developed between DEC and Innovative Interfaces, Inc. in a cooperative research and development venture proposed by the University librarians. The University's experience provided a high degree of confidence in the excellence of the system selected by the private college libraries. The growth of the Internet provided a natural vehicle for the linking of the four library systems and an elegant mechanism for connecting the resources.

Colby College Library brought up its online catalog in 1989. Bates and Bowdoin College Libraries automated in Summer, 1990. Each of the three colleges completed implementation of a fully integrated system consisting of modules for acquisitions, catalog maintenance, online public access and circulation by January 1991. The catalogs of these libraries and the University of Maine System catalog are currently being linked.

### Other Cooperative Efforts - Maine Union List

For more than twenty years the libraries of the University System, Colby, Bowdoin and Bates Colleges have participated in the Larger Libraries Group, a forum for discussion of issues of common importance to academic libraries, the

state library, and the Bangor and Portland Public libraries. Access to journal holdings was a chief concern of the Larger Libraries Group, and out of the need for shared information evolved the major project of the Larger Libraries Group, MULS - the Maine Union List of Serials. Since 1977 MULS has continued to grow and the current edition lists 50,000 holdings for 20,000 unique titles held by 81 libraries. The University System, Colby, Bowdoin and Bates libraries contribute more than 50% of the holdings information in MULS. OCLC libraries participating in MULS account for 71% of the total MULS holdings. Financial support for MULS comes from the Larger Libraries Group, the State Library and the Health Sciences Library Information Cooperative.

Since its inception MULS has been a primary source of serial holdings information for interlibrary loan among Maine Libraries. It is also used by many libraries as a public reference tool, to inform users of the holdings of other libraries to which they intend to travel. However, among the principal contributors to MULS a number of concerns have created an impetus for changing access to serials resources in Maine. Chief among these concerns are the following:

- \* The serials holdings of Maine libraries are not accessible via the national OCLC library network, which is the principal interlibrary loan tool for most academic libraries. Maine libraries are thus not full participants in regional and national resource sharing.
- \* Serial holdings of Maine libraries are not accessible via any online system (each local system displays its own holdings, but not the holdings of other libraries). Thus the bibliographic tool used most heavily by library users in the University System, Colby, Bowdoin and Bates libraries cannot be used for this information.
- \* Information in MULS is 4-16 months out of date, sometimes even more when the institutions fail to report changes in their holdings in a timely fashion.
- \* The reporting process is cumbersome, staff-intensive and error prone.

- \* Representation of an estimated 1000 titles is inconsistent with national cataloging standards (titles entered according to successive entry rules), causing confusion in updating and editing.
- \* MULS is not indexed. Access by alternate title, author, sponsoring body, ISSN, etc. is not possible. Exact title (MARC 245) is the only access point.
- \* MULS provides only limited bibliographic information about each title (title, ISSN, preceding and following titles).

Adding serial holdings information for the primary academic libraries in Maine to the OCLC database address these shortcomings, and meet the need for national and regional access to current serial information.

**(a) GENERAL SELECTION CRITERIA**

**1. PROJECT DESCRIPTION**

The proposed Combination Grant represents a new direction in information sharing via computer for the libraries of the University of Maine System, Colby, Bowdoin and Bates Colleges. The institutions have successfully implemented online catalogs which are being linked with identical search interfaces, and thus provide access to materials outside their respective collections. The project will enable the institutions to expand information services by jointly acquiring two subject periodical index databases which will be searchable with the same search software used in the respective online catalogs. National, regional and local access to serial holdings indexed by the databases also will be jointly undertaken.

Mounting general interest databases designed to meet the needs of students and faculty at the four institutions along side the local online catalogs will facilitate access and use of local collections by removing the barriers that constrain users. The project will make it easy for students and faculty (an

estimated 45,000 users) to switch from one database to another, without having to learn different search protocols, and locate an item from a single unified environment.

The project will be accomplished by mounting the software packages available from Innovative Interfaces, Inc. for H.W. Wilson's Social Science Index and the Index to Legal Periodicals on the DEC System Computer at the University of Maine System Computing facility in Orono, Maine. The existing electronic interfaces among the four institutions will be profiled for direct connections to the database from the four catalogs. Subscription to OCLC's Serials Union List service will enable staff to create local holdings information for the national database, as well as for the region (New England Union List) and the state (Maine Union List).

The selection of the two journal citation databases was based on a desire for broad, multidisciplinary coverage (Social Science Index) as well as a need to meet specialized requirements (Index to Legal Periodicals). As previously stated, the integrity of the search software was critical to maintaining a unified interface with the online catalogs. Consideration was given to Storage requirements, licensing agreements, overall cost, backfile availability and currency. In an effort to balance service and economy, and as a reasonable starting point the indexing software from Innovative Interfaces was chosen.

The expansion of collections and interlibrary loan capabilities are among the expressed needs of the project participants to meet spiraling demands for expanded services and resources made accessible through the online catalogs. Collection gaps became apparent when the holdings of the University libraries were combined in a union catalog, and by a Colby, Bowdoin and Bates survey which found overlap among the three collections to be less than expected. Using the

power of the local online catalog to access multiple information resources, and expanding access to holdings nationally, regionally, and locally will enrich the learning environment for students and faculty at all four institutions.

The goals and objectives of this proposal are to:

1. Initiate a cooperative acquisitions program for electronic resources by sharing the cost burden as well as access to the information resources.
  - a. To purchase permanent databases for H.W. Wilson's Social Science Index and Index to Legal Periodicals.
  - b. To commit respective budgets to the cost of ongoing database user license fees, software maintenance contracts and disk storage.
2. Provide students and faculty of the four institutions with electronic access to periodical indexes through the common interface of the online catalog, thereby facilitating resource sharing of serial collections.
  - a. To mount periodical databases on the University of Maine System computer using load and indexing software from Innovative Interfaces, Inc.
  - b. To develop efficient protocols for electronic exchange of resource sharing requests among the four institutions.
3. Broaden participation in and access to serial resources statewide, regionally and nationally.
  - a. To add serials holdings information for the principal academic libraries in Maine to the OCLC database.
  - b. To commit to ongoing costs to maintain Maine Union List of Serials nationally and distribute the data locally for use by libraries without convenient access to OCLC.

This proposal to cooperatively develop electronic serial resources and the existing agreement to share resources, will provide students and faculty with convenient access to periodical collections which have a greater depth and comprehensiveness than each institution can offer separately, thus improving the academic program at each institution. Cooperative collection development and interlibrary loan of resources has long been a goal among the institutions, but

until the implementation of the linked systems, information needed to make cooperative purchase decisions has been difficult to obtain. This cooperative attitude, coupled with a common desire to provide efficient access and the electronic tools to determine needs will result in a rich environment of electronic information access services, beginning with a program for online access to journal citation databases.

To date efforts at each institution to improve access to citations of journal literature have evolved in a similar direction but independent of one another. One way has been the acquisition of CD-ROM versions of the indexes. Typically this approach provides relatively painless access for users, although there needs to be some investment in learning to use a microcomputer driven CD-ROM index. At three of the libraries IAC Infotrac Systems have been installed to improve access to basic resources for undergraduates (in testing at fourth library). While this approach has been successful as the CD-ROM product became very popular, users now face a virtual arcade of CD-ROMs requiring many of them to learn a variety of interfaces. Furthermore, even if networking CD-ROMs were easy, the number of access points would be limited and probably restricted to use in the library.

In joint meetings of the institutions the librarians concluded that electronic access to citation literature on locally mounted databases would provide several advantages over CD-ROM products. The number of access points to the data need only be restricted only by the number of computer terminals and dial access ports made available, expanding the number of points of contact with the system far beyond the library walls. Indexing capabilities, particularly keyword access to the data, are enlarged once the constraints of a CD-ROM hard drive is replaced by a large computer. Most significant of all, multiple

interfaces for CD-ROMs are replaced by a common interface to as many indexes and databases as the library determines to load. Realizing that efforts to accommodate these issues simplify access to information for users, and building on the common interface of the existing linked systems, the libraries of the University System, Colby, Bowdoin and Bates Colleges have agreed that on-site access to citation databases is the logical, cost effective next step to meeting service demands.

## 2. PLAN OF OPERATION

The design of the project is based on existing procedures for the implementation of Innovative Interfaces, Inc.'s online catalog software (INNOPAC) and participation in OCLC's serials union list, as well as the existing procedures and policies governing the operations of the collaborating libraries' INNOPAC systems, the UMS communications network, and the ongoing program of resource sharing throughout the state of Maine. It does not require any technological breakthroughs.

The management plan is simple and straight-forward. Upon notification of acceptance, project personnel will negotiate contracts and place orders for required software, user licenses and equipment with the appropriate vendors. The project will proceed on two parallel courses: (1) loading the journal citation databases and profiling the communications network and local systems for access; (2) creating local data records on OCLC and producing an offline union list of Maine Serials. Once the databases are loaded staff training and publicity efforts will proceed at each institution. Creation of local data records on OCLC will be preceded by preliminary bibliographic cleanup to convert

all records to current cataloging standards (successive entry). Creating the Maine Union List as a subset of the New England Union List of Serials and the national database will be a shared endeavor by the participating libraries.

The objectives of this project are fundamentally related to the core of the statewide program of resource sharing and interlibrary cooperation. The central purpose of the electronic resources developed to date by the University System, Colby, Bowdoin and Bates Colleges is to increase the effectiveness with which patrons can locate and request needed library materials, regardless of physical location. Electronic access to journal citation databases and the location of serial holdings in academic libraries in Maine and New England will greatly benefit the state's principal academic libraries and their patrons by enhancing and facilitating further access to the available resources.

The mechanisms for cooperation and coordination of effort have evolved since the beginning of automation planning at each institution, as evidenced by the common system and user interface that has been implemented by each institution. Close working relationships and frequent telephone contact have guaranteed open communication among the institutions and a sharing of expertise which resulted in successful library automation projects at each institution and the linking of the systems.

#### Project Schedule

Contract negotiation for H.W. Wilson user licenses for <u>Social Science Index</u> and <u>Index to Legal Periodicals</u> (retrospective and current files)	Oct. 1991
Order software and journal citation databases from Innovative Interfaces, Inc.	Oct. 1991
Order installation of OCLC terminal and profile membership in Union List Subsystem	Oct. 1991

Preliminary database cleanup of serials file	Oct.-Nov. 1992
Create local data records on OCLC and produce offline union list	Oct. 1991-Sept. 1992
Establish MULS online agency	Oct. 1991
Profile, test and load journal citation databases	Dec. 1991
Profile, test and implement network connections to access journal citation databases	Dec. 1991
Train staff	Dec. 1991
Publicize electronic resources	Jan. 1992
Summary project report and evaluation	Sept. 1992

### 3. QUALITY OF KEY PERSONNEL

#### Project Director

Marilyn Lutz, Systems Librarian for the University of Maine System will be the Project Director. Lutz has been responsible for implementing the library automation project at the nine campus libraries of the University System. She authored College Library Technology grant proposals in 1988, 1989, and 1990, was awarded funding, and has served as the Project Director for two Network Equipment Grants: (1) Library Telefacsimile Project to create a document delivery network connecting 9 campus libraries and 11 off campus centers; (2) Library Network Expansion Project to extend the UMS network by providing online catalog access to 29 Community College of Maine off campus locations; and one Services to Institution Grant: Building University Access to Maine Regional Library System Collections Project which adds the holdings of the Maine State Library to the shared online catalog of the University of Maine System libraries. She also has obtained funds to automate the Maine State Law and Legislative Reference Library (1990) and add their holdings to the University System union catalog. Before

assuming the position as UMS Systems Librarian, Lutz was employed by OCLC (Online computer Library Center), Dublin, Ohio, where she worked from 1983 as project manager implementing local automation systems in academic and special libraries throughout the country. She brings to the project administrative and leadership skills for the development and integration of information systems and technology as a central focus of library services in the state, as well as direct technical and practical experience with library automation and resource sharing among principal institutions. She will be responsible for overall project coordination and implementation, including ordering, receipt and installation of software; software profiling and testing; loading databases; monitoring project fund accounts and project evaluation. Lutz will contribute 24 days of her time.

#### Key Personnel

The project will be guided jointly by a project coordinator with automation responsibilities at each institution, who will be responsible for planning and implementing holdings data entry for their respective libraries, supervision of staff, insuring quality control of the serials database, and training staff to use the online periodical databases.

Sam Garwood, Assistant University Librarian, University of Maine (Orono), has had 24 years of library experience in technical services and library administration at Brooklyn College (1966-1971) and the University of Maine (1971 to date). He has planned and supervised major reclassification, retrospective conversion and building renovation projects, and coordinated initial planning for the library automation for the University of Maine System. During 1982-1983 he served for 13 months as Acting Director of the University of Maine Libraries. Since 1979 Garwood has been the manager and editor of the Maine Union List of

Serials, which is the primary source for serials holdings information in Maine Libraries. Garwood will contribute 49 days of his time, and will serve as the principal coordinator for creating holdings records on OCLC for the Maine libraries.

Katherine Kott, Automated Services Librarian, Bates College, is the project coordinator for that library. Her position was created in 1988 to provide a centralized office for project activities. Previously she worked as a Reference and special Projects Librarian at Sangamon State University doing database conversion work using OCLC's SC350 serials control system and LCS, the University of Illinois online catalog used by all public academic libraries in Illinois. From 1978-1984, while Cataloger and later Head of Technical Services at Duke University Law Library, she contributed to system design for the Triangle Research Libraries Network, a consortium comprised of libraries of Duke University, University of North Carolina at Chapel Hill, and North Carolina State University.

Suanne Muehlner, Director of the Colby College Libraries since 1981 will coordinate activities for that institution. She has wide ranging experience in libraries, having been Librarian of the Technische Universitat Berlin, West Germany, as well as having held several senior positions with the M.I.T. Libraries. She is on the board of Directors of the New England Library Network and is a member of the Online Computer Library Center (OCLC) User's Council.

Judy Montgomery, Assistant Library Director since 1985 at Bowdoin College, will be project coordinator for that library. Having worked as catalog librarian from 1979 to 1985, Montgomery has a strong background in cataloging using OCLC. Her other automation efforts include implementing the library's local integrated

system, installing and providing support for CD-ROM products, and implementing Micro LINX, the Faxon Company serials control system.

The four institutions are fortunate to have a number of librarians with diverse background to bring their knowledge to the project. All of the libraries have been OCLC users from the time that bibliographic network became available, and have automation experience implementing the same local integrated system which includes a serials control module. In addition, members of the staff of each library bring a broad spectrum of automation experience to the project, and are active in regional and national library technology meetings.

#### IV. BUDGET AND COST EFFECTIVENESS

Federal funding is being requested for the direct costs associated with acquiring and implementing two journal citation database user licenses, load and indexing software, and OCLC Union List Subsystem startup costs, and staff. The budget is sufficient to allow the project to be initiated and completed within the one year time frame, and is based on firm quotations from H.W. Wilson Company, Innovative Interfaces, Inc. and OCLC. The costs of any items not covered within the project budget will be assumed by the participants.

Staff	\$ 32,308
Software licenses and fees	58,495
Software and first year maintenance	44,940
OCLC System startup costs	18,783
Equipment	2,500

A complete itemized budget breakdown and justification of the proposed budget has been included in PART II, Sections A and C of this application.

The cooperative purchase of journal citation databases for the use of the University of Maine System, Colby, Bowdoin and Bates students and faculty via the electronically linked systems, using an existing statewide network, is the most cost-effective solution possible to the problem of providing shared collection information online. Duplicating the effort of mounting journal citation databases at each library would add costs and require more staff resources.

## 5. ADEQUACY OF RESOURCES

### Salaries

The salaries of the project director Lutz and project coordinators from the University System, Colby, Bowdoin and Bates Colleges will be paid by the respective institutions. Payment for duties delivered will be monitored in the Project Account established by the Grants and Contracts Accountant of the UMS Vice Chancellor for Administration, by the Library Automation Project Director for the University of Maine System, and by the Library Directors of Colby, Bowdoin and Bates Colleges.

UMS Computer Center staff support staff to implement communications and assist in the database load is not charged to the project.

Each institution has insured that enough staff support is available for the project by reallocating staff within the libraries and computer services departments.

### University of Maine System Computing Facilities

The UMS computing and Data Processing Services department (CAPS), located on the Orono campus, provides centralized computing for all campuses of the

University and operates inter-campus data communications networks. Each campus has computing facilities in addition to the support CAPS provides for instructional, research, consulting and administrative needs of the University community. CAPS houses the library system which runs on a DEC System 5820 with 8 logical disk drives totalling 10 gigabytes of storage. The current configuration includes over 200 telecommunications ports. Both TCP/IP and Digital Equipment Corporation's LAT protocols are supported.

Other University facilities include an IBM 3090 -180E (VF) with 64 million bytes of main storage (Orono). The current configuration includes more than 1500 telecommunications ports and more than 30 billion bytes of disk storage. Five tape drives are available. A number of minicomputers including a VAX/VIS 11/780 also are connected to the system. A Prime/PRIMOS computer recently was added to the operations. IBM 4341-2 computers are maintained on the USM Portland campus and the Farmington campus.

Recent activity has involved CAPS in piloting local area networks on three campuses as well as the LAN for the library system on the Orono campus. CAPS is at the hub of current telecommunications plans for the flagship campus as well as the fiber network being implemented statewide for the Community College of Maine Telecommunications System. An NSF grant award funded the UMS connection to the NSFnet Through Boston.

#### Ongoing Support

Staff needs for implementation and for operation when the project has been completed have been budgeted from the appropriate institutional operating funds, or will be at the proper time. These ongoing costs include user licenses, software maintenance, disk storage, and OCLC system fees totaling \$32,328

annually, plus associated personnel and computer usage costs. Financial resources currently in place, in combination with the funding requested in this proposal, are adequate to meet the start-up and ongoing requirements of the proposed project. Participating institutions will assume responsibility for the project on an ongoing basis.

#### 6. EVALUATION

Project evaluation will be ongoing. Usage data will be compiled for the number of connections to the Wilson indexes with network statistics. The academic communities will be surveyed to determine ease of access and attempt to identify any problems. Using the circulation statistics package on the respective INNOPAC systems, borrowing and lending among the institutions, and among member libraries of the New England Union List of Serials (NEULS) can be measured to determine rates of growth since making holdings information available on OCLC. Library staff and directors from the four institutions will provide cost benefit analysis on the shared acquisitions program. Usage data and evaluation surveys will be analyzed and final project report will be produced that will assess the impact of the project on the libraries and their patrons.

**SPECIAL PROGRAM CRITERIA - COMBINATION GRANT**

i. As noted in the "Background" section, the UMS, Colby, Bowdoin and Bates are the principle academic libraries in Maine, and through their efforts to automate library services are evolving a statewide network of resource sharing. The choice of Innovative Interfaces software at all four institutions and agreement to link the systems has provided users with a common interface for locating and obtaining materials regardless of location. An electronic requesting function (soon to be implemented) will facilitate interlibrary requests. The annual expense of running the respective systems is a small percentage of the initial cost, exceedingly small in relation to the expansion of resources gained for users. In the light of these benefits the institutions have deemed it appropriate to add the continuing costs to their operating budgets. There are other system needs not addressed in the respective funding plans, and they can only be implemented if other sources of support are secured outside of those requested in the respective operating budgets. There is a very real need for special assistance to enable the libraries to expand interlibrary loan capabilities to allow users to make more effective use of the linked catalogs.

ii. This specific request for support to cooperatively acquire journal citation databases and provide national and regional access to serial holdings in Maine presumes a level of commitment to information technology and resource sharing that has already been accomplished. The University of Maine System, Bates, Bowdoin and Colby Colleges are each fully committed to sharing library resources, and to this consortium project which will make this sharing convenient for users and ease the burden of acquisitions budgets. The project will be continued as a regular resource sharing program at an estimated annual cost of \$ 23,225 plus

associated personnel and computer usage costs. Annual costs to maintain current holdings information on OCLC for the Maine Union List is \$9,103 plus associated personnel and the cost of print and fiche copies.

iii. As indicated earlier, the four institutions have a long history of resource sharing and interlibrary cooperation. The cooperative nature of the group is a part of the day-to-day operations of each participating library. Enhancing the resources available to the students and faculty will only serve to expand actual resource sharing.

iv. Expanding the diversity of resources available online will provide direct benefits to students, faculty and staff of each participating institution, strengthening the academic programs in each of the institutions in the process. It is anticipated that this initiative to share the cost of electronic resources will serve as a foundation for sharing in other areas.

v. The project would serve to increase resource sharing at the state, regional and national levels by enhancing direct access to the serials holdings of academic libraries in Maine. The linked systems of the participants serve an estimated 45,000 students and faculty.

vi. The project will utilize standard Digital Equipment Corporation equipment, local and national networking technologies, as well as software and data created by known vendors (OCLC, Innovative Interfaces, Inc. and H.W. Wilson Company), ensuring compatibility with other networks.

vii. Project personnel are willing to share expertise with other library automation projects attempting to provide similar services. Academic libraries in the preliminary stages of mounting journal citation databases and developing statewide resource sharing networks will benefit from the experience and expertise gained through this project. As a beta site for the implementation of

Innovative's INNOPAC system on DEC equipment, the University of Maine System and Colby, Bowdoin, and Bates Colleges librarians have already served as resources for prospective buyers of Innovative's software running on DEC equipment. Telephone contacts and site visits have been ongoing since 1988. Continuing in this role of sharing technological expertise will be an important contribution of the project.

## APPENDICES

**Resumes of project director and project coordinators**  
**Maine Union List of Serials members**

# MAINE UNION LIST OF SERIALS

May 1990

The 1990 microfiche edition of MULS lists the holdings of 81 Maine Libraries as reported through March 1, 1990. Approximately 46,400 holdings are reported for 19,200 unique titles.

Recent title changes follow successive entry practice, but most title changes that occurred before 1980 are still represented in latest entry form, with cross references from earlier titles. Entries conform, in most cases, to current OCLC bibliographic records. A major exception is the treatment of non-distinctive titles such as Journal, Transactions, etc., which are usually entered in MULS under the name of the issuing body.

It should be noted that some libraries represented in this list do not report all of their government publications and non-periodical serials. For instance, the Fogler Library of the University of Maine receives all U.S. government depository serial items, but most are not listed here.

## Acknowledgements

The Maine Union List of Serials is a cooperative project, produced by the collective efforts of the many librarians who report the data for their respective libraries. The value of MULS depends on the accuracy and timeliness of their work. The Larger Libraries Group, the Maine State Library and the Health Sciences Library Cooperative of Maine deserve special recognition for their continuing financial support.

Thanks also are due to Starlene Vandez, for an excellent job of data entry; and to Bea Macomber, who did most of the bibliographic searching on OCLC for title verification.

Sam Garwood  
Fogler Library  
University of Maine  
April 1990

The following institutions provide financial support for the MAINE UNION LIST OF SERIALS project:

Maine State Library  
Bangor Public Library  
Bates College  
Bowdoin College  
Colby College  
Portland Public Library  
University of Maine  
University of Southern Maine  
Health Sciences Library Information Cooperative (HSLIC)

# LIBRARY CODES

AMHI	Augusta Mental Health Institute
AUBPL	Auburn Public Library
BATES	Bates College (Lewiston)
BATHMH	Bath Memorial Hospital
BEAL	Beal College (Bangor)
BIGDMR	Bigelow Laboratory/Dept. of Marine Resources
BMHI	Bangor Mental Health Institute
BOWD	Bowdoin College (Brunswick)
BPL	Bangor Public Library
BTS	Bangor Theological Seminary
CARY	Cary Medical Center (Caribou)
CMMC	Central Maine Medical Center (Lewiston)
CMP	Central Maine Power
COA	College of the Atlantic (Bar Harbor)
COLBY	Colby College (Waterville)
DHS	Department of Human Services (Augusta)
DYER	Dyer Library - York Institute Museum (Saco)
EMMC	Eastern Maine Medical Center (Bangor)
EMTC	Eastern Maine Technical College (Bangor)
FBR	Foundation for Blood Research
FMH	Franklin Memorial Hospital (Farmington)
GENE	Center for Human Genetics (Bar Harbor)
GOOD	Goodall Hospital (Sanford)
GPL	Greater Portland Landmarks
HRH	Houlton Regional Hospital
HUSSON	Husson College (Bangor)
JLAB	Jackson Laboratory (Bar Harbor)
KVMC	Kennebec Valley Medical Center (Augusta)
KVTC	Kennebec Valley Technical College (Waterville)
LAC	Lewiston-Auburn College
LITH	Lithgow Library (Augusta)
LPL	Lewiston Public Library
MCD	Medical Care Development, Inc. (Augusta)
MERCY	Mercy Hospital (Portland)
MHIST	Maine Historical Society (Portland)
MILES	Miles Memorial Hospital (Damariscotta)
MILLRH	Millinocket Regional Hospital
MMA	Maine Maritime Academy (Castine)
MMC	Maine Medical Center (Portland)
MSTATE	Maine State Library (Augusta)
NMMC	Northern Maine Medical Center (Fort Kent)
NMTC	Northern Maine Technical College (Presque Isle)
NORCUM	Northern Cumberland Memorial Hospital (Bridgton)
OHM	Osteopathic Hospital of Maine (Portland)
PARK	Parkview Memorial Hospital (Brunswick)
PENBAY	Pen Bay Medical Center (Rockland)
PINE	Pineland Center (Pownall)
PPL	Portland Public Library

PSAL	Portland School of Art Library
PUC	Public Utilities Commission (Augusta)
RAISE	Northern Maine RAISE (Presque Isle)
RCH	Rumford Community Hospital
RFGH	Redington-Fairview General Hospital (Skowhegan)
RMH	Regional Memorial Hospital (Brunswick)
STEPMH	Stephens Memorial Hospital (Norway)
SJCOLL	St. Joseph's College (North Windham)
SJHOSP	St. Joseph Hospital (Bangor)
SMMC	Southern Maine Medical Center (Biddeford)
SMTCA	Southern Maine Technical College (S.Portland)
STLAW	Law and Legislative Reference Library (Augusta)
STMARY	St. Mary's Hospital (Lewiston)
TAMC	The Aroostook Medical Center
THAYER	Mid-Maine Medical Center - Thayer Unit (Waterville)
THOMAS	Thomas College (Waterville)
TOGUS	Veterans Administration Center (Togus)
UM	University of Maine
UMA	University of Maine at Augusta
UMDAR	Darling Center of the University of Maine
UMF	University of Maine at Farmington
UMFK	University of Maine at Fort Kent
UMLAW	University of Maine School of Law
UMM	University of Maine at Machias
UMPI	University of Maine at Presque Isle
UNE	University of New England (Biddeford)
UNITY	Unity College
USM	University of Southern Maine
WATOST	Waterville Osteopathic Hospital
WPL	Waterville Public Library
WSTBRK	Westbrook College (Portland)
YORK	York Hospital

# INTERLIBRARY LOAN DIRECTORY

## The Aroostook Medical Center (TAMC)

The Aroostook Medical Center  
Health Sciences Library  
P O Box 151  
Presque Isle, Maine 04769-0151

Telephone no.: 768-4173

## Auburn Public Library (AUBPL)

Interlibrary Loan  
Auburn Public Library  
49 Spring Street  
Auburn, Maine 04210

Telephone no.: 782-3191  
Photocopy charges per page: 20 cents  
Billing only for \$2.00 or more  
Copies from microfilm: 25 cents/page

## Augusta General Hospital

See: Kennebec Valley Medical Center

## Augusta Mental Health Institute (AMHI)

Health Sciences Library  
Augusta Mental Health Institute  
Box 724  
Augusta, Maine 04330

Telephone no.: 289-7268

## Bangor Mental Health Institute (BMHI)

Interlibrary Loans  
Health Sciences Media Center  
Bangor Mental Health Institute  
P.O. Box 926  
Bangor, Maine 04401

Telephone no.: 941-4228  
Photocopy charges per page: Reciprocity

## Bangor Public Library (BPL)

Interlibrary Loan Department  
Bangor Public Library  
145 Harlow Street  
Bangor, Maine 04401

Telephone no.: 947-8336  
Photocopy charges per page: 10 cents;  
no charge first 10 pages.  
From microfilm: 25 cents per page

## Bangor Theological Seminary (BTS)

Moulton Library  
Bangor Theological Seminary  
300 Union Street  
Bangor, Maine 04401

Telephone no.: 942-6781, Ext. 22  
Photocopy charges per page: 10 cents  
Cannot copy microfilm/fiche  
Reciprocal agreements honored

## Bates College (BATES)

Interlibrary Loans  
George and Helen Ladd Library  
Bates College  
Lewiston, Maine 04240

Telephone no.: 786-6263  
Photocopy charges per page: 10 cents  
\$1.00 minimum  
Exchange agreement honored

## Bath Memorial Hospital (BATHMH)

Bath Memorial Hospital  
Health Sciences Library  
150 Washington St.  
Bath, Maine 04530

Telephone no.: 443-5524, Ext. 228

## Beal College (BEAL)

Beal College Library  
Box 450  
Bangor, Maine 04401

Telephone no.: 947-4591  
Photocopy charges per page: 10 cents;  
no charge under 10 pages.

## Bigelow Laboratory/Maine, Department of Marine Resources (BIGDMR)

Library  
Bigelow Laboratory/Maine, Dept. of  
Marine Resources  
McKown Point  
West Boothbay Harbor, Maine 04575

Telephone no.: 833-2173, Ext 26  
633-5572, Ext 68  
No charge under 50 pages

## Bowdoin College (BOWD)

Interlibrary Loans  
Bowdoin College Library  
Brunswick, Maine 04011

Telephone no.: 725-3283  
Photocopy charges per page: 10 cents  
Minimum charge for photocopy service: \$1.00  
Interlibrary Loan Service charge:  
Postage over \$1.00  
Signed NELINET reciprocal agreement

## Cary Medical Center (CARY)

Health Science Library  
Cary Medical Center  
MRA Box 37  
Caribou, Maine 04736

Telephone no.: 498-3111, Ext 114

Center for Human Genetics (GENE)

Center for Human Genetics  
Firehouse Hill  
Bar Harbor, Maine 04609  
  
Telephone no.: 207-288-5815  
Photocopy charges per page: 10 cents

Central Maine Medical Center (CMMC)

Health Sciences Library  
Central Maine Medical Center  
300 Main Street  
Box 4300  
Lewiston, Maine 04240  
  
Fax: 795-2303 (Rush only)  
Telephone no.: 795-2560  
Free loans to reciprocating libraries  
in and out of state

Central Maine Power Company (CMP)

Library Services  
Edison Drive  
Augusta, ME 04338  
ATTN: Shared Resources  
  
Telephone no.: 623-3521 ext. 2127  
FAX no.: 623-9384  
No charge for any ILL transaction

Central Maine Technical College (CMTC)

Library  
Central Maine Technical College  
1250 Turner St east  
Auburn, Maine 04210  
  
Telephone no.: 784-2385, Ext. 285  
No charge for reciprocating libraries  
Ask for Mrs. Shink

Colby College (COLBY)

Interlibrary Loan  
Colby College Library  
Waterville, Maine 04901  
  
Telephone no.: 872-3288  
Photocopy charges per page: 15 cents; minimum \$5.00  
No charge to reciprocating libraries

College of the Atlantic (COA)

Thorndike Library  
College of the Atlantic  
Eden Street  
Bar Harbor, Maine 04609  
  
Telephone no.: 288-5015 Ext. 211  
No charge to reciprocating libraries

Darling Center of the University of Maine (UMDAR)

Library  
Darling Marine Center  
Walpole, Maine 04573  
  
Telephone no.: 563-3146, Ext. 226  
Photocopy charges per page: 10 cents

Department of Human Services (DHS)

Department of Human Services Library  
157 Capitol Street  
Augusta, Maine 04333  
  
Telephone no.: 289-5393 or 289-5390  
No charge for photocopying

Department of Marine Resources

See: Bigelow Laboratory

Dyer Library (DYER)

Dyer Library - York Institute Museum  
371 Main Street  
Saco, Maine 04072  
  
Telephone no.: 283-3861

Eastern Maine Medical Center (EMMC)

Health Science Library  
Eastern Maine Medical Center  
489 State Street  
Bangor, Maine 04401  
  
Telephone no.: 945-8228  
No charge to reciprocating libraries

Eastern Maine Technical College (EMTC)

Library  
Eastern Maine Technical College  
354 Hogan Road  
Bangor, Maine 04401  
Telephone no.: 941-4600

Foundation for Blood Research (FBR)

Library  
Foundation for Blood Research  
Box 190  
Scarborough, Maine 04074-0428  
  
Telephone no.: 883-4131  
No charge to reciprocating libraries

Franklin Memorial Hospital (FMH)

Librarian, Medical Library  
Franklin Memorial Hospital  
One Hospital Drive  
Farmington, Maine 04938  
  
Telephone no.: 778-6031

Goodall Hospital (GOOD)

Health Sciences Library  
H.D. Goodall Hospital  
25 June Street  
Sanford, Maine 04073

Telephone no.: 324-4310 ext 318

Gould Memorial Hospital

See: Aroostook Medical Center

Greater Portland Landmarks, Inc. (GPL)

Frances W. Peabody Research Library  
165 State Street  
Portland, Maine 04101

Telephone no.: 774-5561

Houlton Regional Hospital (HRH)

Medical Library  
Houlton Regional Hospital  
20 Hartford Street  
Houlton, Maine 04730

Telephone no.: 532-9471, Ext. 174

Husson College (HUSSON)

Interlibrary Loan  
Husson College Library  
One College Circle  
Bangor, Maine 04401

Telephone no.: 947-1121, Ext. 222, 284  
Photocopy charges per page: 10 cents  
Reciprocal agreements honored

Jackson Laboratory (JLAB)

Library  
The Jackson Laboratory  
600 Main Street  
Bar Harbor, Maine 04609

Telephone no.: 288-3371, Ext. 208

Kennebec Valley Medical Center (KVMC)

Library  
Kennebec Valley Medical Center  
6 E. Chestnut Street  
Augusta, Maine 04330

Telephone no.: 626-1325

Kennebec Valley Technical College (KVTC)

Media Center  
Kennebec Valley Technical College  
P.O. Box 29  
Fairfield, Maine 04937-0029

Telephone no.: 453-9782 Ext. 162 or 163  
Photocopy charges per page: reciprocity for  
HSLIC & T.C.'s; 10¢ per page for others

Law and Legislative Reference Library (STLAW)

Law and Legislative Reference Library  
State House - Station No. 43  
Augusta, Maine 04333

Telephone no.: 289-1800  
Photocopy charges per page: 20 cents  
NELINET agreement participant  
Reciprocal agreements honored

Lewiston-Auburn College (LAC)

Library  
Lewiston-Auburn College  
51-55 Westminster St.  
Lewiston, ME 04240

Telephone no.: 783-4860  
FAX no.: 782-6270

Free loans to reciprocating libraries in and  
out of state.  
NELINET member  
OCLC symbol: PGN

Lewiston Public Library (LPL)

Lewiston Public Library  
105 Park Street  
Lewiston, Maine 04240

Telephone no.: 784-0135  
Photocopy charges per page: 10 cents  
Minimum charge for photocopy service:  
50 cents

Lithgow Public Library (LITH)

Interlibrary Loan  
Lithgow Public Library  
Winthrop Street  
Augusta, Maine 04330

Telephone no.: 626-2415  
Photocopy charges per page: 10 cents

Maine Department of Marine Resources (BIGDMR)

See: Bigelow Laboratory

Maine Historical Society (MHIST)

Librarian  
Maine Historical Society  
485 Congress Street  
Portland, Maine 04101

Telephone no.: 774-1822  
Photocopy charges: 25 cents per page

Maine Maritime Academy (MMA)

Interlibrary Loan  
Nutting Memorial Library  
Maine Maritime Academy  
Box C 1  
Castine, Maine 04420

Telephone no.: 326-4311, Ext. 263  
Photocopy charges, \$1.00 minimum;  
10 cents per page; 15 cents per page  
from fiche or film; for company library,  
\$1.50 service charge, 25 cents per page  
from paper, 40 cents from fiche or film.  
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agreement

Maine Medical Center (MMC)

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Maine Medical Center Library  
22 Bramhall Street  
Portland, Maine 04102

Telephone no.: 871-2202  
Minimum charge for photocopy services:  
Do it yourself-10¢/page. Library staff  
photocopy \$8.00/article or GNERMLS coupon.  
Interlibrary Loan Service charge: \$8.00 or  
GNERMLS coupon per interlibrary loan

Maine State Library (MSTATE)

Interlibrary Loan Service  
Reference Section  
Maine State Library  
Station No. 64  
Augusta, Maine 04333

Telephone no.: 289-3561. Reference  
Photocopy charges per page: 10 cents  
Minimum charge for photocopy service:  
\$1.00. Interlibrary loan service charge:  
borrower pays return postage  
Nellinet agreement participant

Medical Care Development, Inc. (MCD)

Library  
Medical Care Development, Inc.  
11 Parkwood Drive  
Augusta, Maine 04330

Telephone no.: 622-7566  
Reciprocal agreements honored

Mercy Hospital (MERCY)

Mercy Hospital  
Health Sciences Library  
144 State Street  
Portland, Maine 04101

Telephone no.: 879-3365  
Reciprocal agreements honored

Mid-Maine Medical Center (THAYER)

Health Sciences Library  
Mid-Maine Medical Center  
Thayer Unit  
Waterville, Maine 04901

Telephone no.: 872-1224  
Free loans to reciprocating libraries  
in and out of state

Miles Memorial Hospital (MILES)

Miles Medical Library  
Miles Health Care Center  
Bristol Road  
Damariscotta, Maine 04543

Telephone no.: 563-1234 Ext 253  
No charge for photocopies

Millinocket Regional Hospital (MILLRH)

Mrs. Jane MacDonald, Librarian  
Millinocket Regional Hospital  
200 Somerset Street  
Millinocket, Maine 04462

Telephone no.: 723-5161, Ext. 210

Northern Cumberland Memorial Hospital (NORCUM)

Sally M. MacAuslan, Librarian  
Frederick W. Skillin Health Sciences Library  
South High Street  
P O Box 230  
Bridgton, Maine 04009

Telephone no.: 647-8841  
Photocopy costs: none

Northern Maine Medical Center (NMMC)

Medical Library  
Northern Maine Medical Center  
143 E. Main Street  
Fort Kent, Maine 04743

Telephone no.: 834-3155, Ext. 136

Northern Maine RAISE (RAISE)

Northern Maine RAISE  
P.O. Box 1238  
Presque Isle, Maine 04769

Telephone no.: 764-4178

Northern Maine Technical College (NMTC)

Library  
Northern Maine Technical College  
33 Edgemont Drive  
Presque Isle, Maine 04769

Telephone no.: 769-2461, Ext 430  
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No charge for all reciprocating libraries

Osteopathic Hospital of Maine (OHM)

Health Sciences Library  
Osteopathic Hospital of Maine, Inc.  
335 Brighton Avenue  
Portland, Maine 04102

Telephone no.: 879-8180

Parkview Memorial Hospital (PARK)

Medical Library  
Parkview Memorial Hospital  
329 Maine Street  
Brunswick, ME 04011

Telephone: 729-1641, Ext 264

Pen Bay Medical Center (PENBAY)

Health Science Library  
Pen Bay Medical Center  
Glen Cova  
Rockland, Maine 04841  
  
Telephone no.: 596-8223  
FAX no.: 596-8642  
No charge to reciprocating libraries

Pineland Center (PINE)

Interlibrary Loans  
Pineland Center  
Box E  
Pownal, Maine 04069-0902

Att: Library

Telephone No.: 688-4811 Ext. 362  
No charges

Portland Public Library (PPL)

Interlibrary Loan  
Portland Public Library  
5 Monument Square  
Portland, Maine 04101  
  
Telephone no.: 871-1700, Ext. 735  
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10¢ per page above 10 pages.  
Charges for walk-in patrons on A..B.Dick,  
JM, and Canon copiers: 10 cents per page

Portland School of Art Library (PSAL)

Interlibrary Loan  
Portland School of Art Library  
619 Congress Street  
Portland, Maine 04101  
  
Telephone no.: 775-5153  
Photocopy charges per page: 10 cents  
Minimum charge: \$1.00

Public Utilities Commission (PUC)

Information Resource Center  
Public Utilities Commission  
242 State Street Station #18  
Augusta, ME 04333

Telephone No: 289-3831  
Reciprocal agreements honored.  
Nelinet agreement participant.

Redington-Fairview General Hospital (RGH)

Rebecca Jordan  
Health Science Library  
Redington-Fairview General Hospital  
Fairview Avenue P. O. Box 468  
Skowhegan, Maine 04976

Telephone no.: 474-5121, Ext. 419

Regional Memorial Hospital (RMH)

Health Sciences Library  
Regional Memorial Hospital  
58 Baribeau Drive  
Brunswick, Maine 04011

Telephone no.: 729-0181, Ext 365

Rumford Community Hospital (RCH)

Health Science Library  
Rumford Community Hospital  
420 Franklin Street  
Rumford, Maine 04276

Telephone no.: 364-4581, Ext 300

St. Joseph Hospital (SJHOSP)

St. Joseph Hospital  
Health Sciences Library  
360 Broadway  
Bangor, Maine 04401

Telephone no.: 947-8311, Ext. 242  
No charges to reciprocating libraries

St. Joseph's College (SJCOLL)

Interlibrary Loan  
Wellehan Library  
St. Joseph's College  
Windham, Maine 04062-1198

Telephone no.: 892-6786 Ext. 352

St. Mary's Hospital (STMARY)

Health Sciences Library  
St. Mary's Hospital  
P.O. Box 291  
Lewiston, Maine 04243-0291

Telephone no.: 786-2901, Ext. 3140  
No charge to reciprocating libraries

Southern Maine Medical Center (SMMC)

Health Sciences Library  
Southern Maine Medical Center  
Box 626  
Biddeford, Maine 04005

Telephone no.: 283-3663, Ext. 139

Southern Maine Technical College (SMTCC)

Library  
Southern Maine Technical College  
Fort Road  
South Portland, Maine 04106

Telephone no.: 799-7303, Ext. 230  
No charges to reciprocating libraries

Stephens Memorial Hospital (STEPMH)

Health Science Library  
Stephens Memorial Hospital  
80 Main Street  
Norway, Maine 04268

Telephone no.: 743-5933, Ext. 323

Thomas College (THOMAS)

Thomas College Library  
West River Road  
Waterville, Maine 04901

Telephone no.: 873-0771, Ext. 233  
Photocopy charges per page: 10 cents  
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Unity College (UNITY)

Unity College Library  
P.O. Box 167  
Unity, Maine 04988

Telephone no.: 948-3131, Ext. 234  
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University of Maine (UM)

Interlibrary Loans  
Raymond H. Fogler Library  
University of Maine  
Orono, Maine 04469

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Fiche to fiche: 30¢  
Handling Charge: \$2.50  
Will not loan Maine Census film  
Nelinet agreement participant

University of Maine at Augusta (UMA)

Interlibrary Loans  
Learning Resources Center  
University of Maine  
Augusta, Maine 04330

Telephone no.: 622-7131, Ext. 367  
Photocopy charges per page: 10 cents

University of Maine at Farmington (UMF)

Interlibrary Loans  
Mantor Library  
University of Maine at Farmington  
41 High Street  
Farmington, Maine 04938

Telephone no.: 778-3501, Ext. 360  
FAX no.: 778-9991  
Photocopy charges per page: 10 cents

University of Maine at Fort Kent (UMFK)

Blake Library  
University of Maine at Fort Kent  
Fort Kent, Maine 04743

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FAX no.: 834-3373  
Photocopy charges per page: 10 cents

University of Maine at Machias (UMM)

Interlibrary Loan  
Merrill Library  
University of Maine  
Machias, Maine 04654

Telephone no.: 255-3313, Ext. 234 or 355  
Photocopy charges per page: 10 cents

University of Maine at Presque Isle (UMPI)

Library - Interlibrary Loan  
University of Maine at Presque Isle  
181 Main Street  
Presque Isle, Maine 04769-2888

Telephone no.: 764-0311, Ext. 297  
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after 30 pages. Reciprocal agreements  
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University of Maine School of Law (UMLAW)

Interlibrary Loan  
Donald L. Garbrecht Law Library  
University of Maine School of Law  
246 Deering Avenue  
Portland, Maine 04102

Telephone no.: 780-4818  
\$5.00 service charge for each request  
of 3 pages or more, plus postage

University of New England (UNE)

Interlibrary Loan  
University of New England Library  
11 Hills Beach Road  
Biddeford, Maine 04005

Telephone no.: 283-0171, Ext. 386  
Fax: 282-6379  
Reciprocal agreements honored.

University of Southern Maine (USM)

Interlibrary Loan  
Gorham Campus Library  
University of Southern Maine  
Gorham, Maine 04038

Telephone no.: 780-5343  
OCLC symbol: PGP  
Photocopy charges: minimum charge \$1.50;  
includes up to 10 pages and handling  
charge. 10 cents charge per page beyond  
10 pages. Reciprocal agreements honored

(University of Southern Maine)

Interlibrary Loan  
Portland Campus Library  
University of Southern Maine  
96 Falmouth Street  
Portland, Maine 04103

Telephone no.: 780-4279  
OCLC symbol: PGP  
Photocopy charges: Minimum charge \$1.50;  
includes up to 10 pages and handling  
charge. 10 cents charge per page beyond  
10 pages. Reciprocal agreements honored

Veterans Administration Center, Togus (TOGUS)

Gary Pelletier - ILL  
Learning Resources Services (142D)  
Department of Veterans Affairs  
VA Medical and Regional Office Center  
Togus, Maine 04330

Telephone no.: 623-8411, Ext. 5866  
Fax: 623-5766  
Free service to all HSLIC members and VA  
libraries only; all others are charged an  
RML Coupon (Coupons only)

Waterville Osteopathic Hospital (WATOST)

Library  
Waterville Osteopathic Hospital  
Kennedy Memorial Drive  
Waterville, Maine 04901

Telephone no.: 873-0731  
No charge for photocopies

Waterville Public Library (WPL)

Interlibrary Loan  
Waterville Public Library  
73 Elm Street  
Waterville, Maine 04901

Telephone no.: 872-5433, 873-4779  
Photocopy charges per page: 15 cents

Westbrook College (WSTBRK)

Interlibrary Loan  
Westbrook College Library  
716 Stevens Avenue  
Portland, Maine 04103

Telephone no.: 797-7261, Ext. 330  
Photocopy charges per page: 10 cents

York Hospital (YORK)

Darryl Hamson, Librarian  
York Hospital  
15 Hospital Drive  
York, Maine 03909

Telephone no.: 363-4321, Ext. 189

APPLICATION FOR  
FEDERAL ASSISTANCE

		2. DATE SUBMITTED 1-11-91 (8-14-91 Revised)	Applicant Identifier				
1. TYPE OF SUBMISSION: Application <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Non-Construction	Program/Action <input type="checkbox"/> Construction <input type="checkbox"/> Non-Construction	3. DATE RECEIVED BY STATE	State Application Identifier				
		4. DATE RECEIVED BY FEDERAL AGENCY	Federal Identifier				
5. APPLICANT INFORMATION							
Legal Name: <b>UNIVERSITY OF MAINE SYSTEM</b>		Organizational Unit: <b>LIBRARIES</b>					
Address (give city, county, state, and zip code): <b>Raymond H. Fogler Library University of Maine Orono, ME 04469-0139</b>		Name and telephone number of the person to be contacted on matters involving this application (give area code) <b>Marilyn Lutz (207)581-1658</b>					
6. EMPLOYER IDENTIFICATION NUMBER (EIN): <b>0 1 - 6 0 0 0 7 6 9</b>		7. TYPE OF APPLICANT: (enter appropriate letter in box) <input checked="" type="checkbox"/> A A. State B. County C. Municipal D. Town/Env E. Interstate F. Intergovernmental G. Special District H. Independent School Dist. I. State Controlled Institution of Higher Learning J. Private University K. Indian Tribe L. Individual M. Profit Organization N. Other (Specify): _____					
8. TYPE OF APPLICATION: <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision  If Revision, enter appropriate letter(s) in boxes: <input type="checkbox"/> <input type="checkbox"/> A. Increases Award    B. Decreases Award    C. Increase Duration D. Decrease Duration    E. Other (Specify): _____		9. NAME OF FEDERAL AGENCY: <b>U.S. Department of Education</b>					
10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER: <b>8 4 . 1 9 7</b>		11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT and type: <input type="checkbox"/> A. Networking Grant <input checked="" type="checkbox"/> B. Combination Grant <input type="checkbox"/> C. Services to Institutions Grant <input type="checkbox"/> D. Research and Demonstration Grant					
12. AREAS AFFECTED BY PROJECT (check counties, states, etc.): <b>STATE OF MAINE</b>		13. PROPOSED PROJECT: <table border="1"> <tr> <td>Start Date 10-1-91</td> <td>Ending Date 9-30-92</td> <td>14. CONGRESSIONAL DISTRICTS (if applicable): a. Applicant    <b>Second Congressional District</b></td> <td>b. Project    <b>First and Second Congressional Districts</b></td> </tr> </table>		Start Date 10-1-91	Ending Date 9-30-92	14. CONGRESSIONAL DISTRICTS (if applicable): a. Applicant <b>Second Congressional District</b>	b. Project <b>First and Second Congressional Districts</b>
Start Date 10-1-91	Ending Date 9-30-92	14. CONGRESSIONAL DISTRICTS (if applicable): a. Applicant <b>Second Congressional District</b>	b. Project <b>First and Second Congressional Districts</b>				
15. ESTIMATED FUNDING:		16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS? a. YES. THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON: DATE <b>10-1-91</b>  b. NO. <input type="checkbox"/> PROGRAM IS NOT COVERED BY E.O. 12372 <input type="checkbox"/> OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW					
17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT?  <input type="checkbox"/> Yes. If "Yes," attach an explanation.		<input checked="" type="checkbox"/> No					
18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION/PREAPPLICATION ARE TRUE AND CORRECT. THE DOCUMENT HAS BEEN ONLY AUTHORIZED BY THE GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED							
a. Typed Name of Authorized Representative <b>Richard C. Bowers</b>		b. Title/Vice Chancellor for Academic Affairs					
c. Signature of Authorized Representative  <i>Richard C. Bowers</i>		d. Telephone Number					
		e. Date Signed <b>8-14-91 REVISED</b>					

Previous editions NOT valid

Standard Form 424 (MAY 1-88)  
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PART II - BUDGET INFORMATION  
FY 1991

- A. NETWORKING GRANT       C. SERVICES TO INSTITUTIONS GRANT  
 B. COMBINATION GRANT       D. RESEARCH AND DEMONSTRATION GRANT

Section A. - Budget By Categories

	FEDERAL REQUEST	APPLICANT MATCHING CONTRIBUTION
1. Salary and Wages	\$ 25,950	22,660
2. Fringe Benefits	6,358	5,552
3. Travel	0	0
4. Equipment (Per item cost \$300 or more)	2,500	22,094
5. Supplies (Per item cost less than \$300)	0	0
6. Contractual Services	111,470	0
7. Other (itemize in Section C, below)	4,440	0
8. Total Direct costs (lines 1 to 7 totaled)		
9. Total Indirect Costs - _____ % rate Indicate which of the line items above (1-3, 5-7) the indirect cost rate is applied to: _____.		-
10. Totals	150,718	50,306

Section B - Estimate of Expenditures and Matching Contribution

1. Year One	\$	
2. Year Two		
3. Year Three		

Section C - Itemized Budget - see Instructions for Part II - Budget

Section D - Matching Contribution

An assurance that the matching requirement will be satisfied is required under section 779.10 of the program regulations. Please certify that:

If selected as a grantee, the applicant will expend, for the same purpose as the grant, an amount not less than one-third the grant during the period for which the grant is sought; and make that expenditure from funds other than those received under Title II of the Higher Education Act.

Signed Richard O'Brien

Date \_\_\_\_\_

Title Vice Chancellor for Academic Affairs

REVISED 8-14-91

## PART II - BUDGET INFORMATION

## SECTION C: ITEMIZED BUDGET FY 91

## Enhancing Access to Journal Literature

Combination Grant Category  
(12 Months)

<u>Line Item/Description</u>	<u>Federal Support Required</u>	<u>Institutional Direct Matching Support</u>	<u>Total Project Budget</u>
1. <u>Salary and Wages</u>	25,950	22,660	48,610
Principal staff involved in the implementation of this project are Project Director Marilyn Lutz, Project Coordinators from each institution and clerical staff for data entry.			
A. Project Director Lutz \$154 per day x 25 days = \$ 3,850			
B. MULS Project Coordinator \$187 per day x 38 days = \$ 7,106			
C. Professional Staff at each institution \$154 per day x 76 days = \$11,704			
D. Clerical Staff 3000 hrs x \$8.65 per hr = \$25,950			

<u>Line Item/Description</u>	<u>Federal Support Required</u>	<u>Institutional Direct Matching Support</u>	<u>Total Project Budget</u>
2. <u>Fringe Benefits</u>	6,358	5,552	11,910
University of Maine System fringe benefits amount to 24.5% of the salary for each employee. For a salary contribution of \$22,268 total fringe benefits equal \$5,552.			
For a salary of \$25,950 total fringe benefits equal \$6,358.			
3. <u>Travel</u>	0	0	0
4. <u>Equipment</u>			24,594
DEC System disk drive OCLC terminal	0 2,500	22,094 0	
5. <u>Supplies</u>	0	0	0

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41

<u>Line Item/Description</u>	<u>Federal Support Required</u>	<u>Institutional Direct Matching Support</u>	<u>Total Project Budget</u>
6. <u>Contractual Services</u> (Software licenses)	111,470	0	111,470
A. Software to put Maine Union List of Serials online: 18,783			
B. Innovative Interfaces periodical index software for H.W. Wilson indexes: 40,500 Social Science Index (20,250) Index to Legal Periodicals (20,250)			
C. H.W. Wilson user licenses: 52,187 Social Science Index Retrospective (22,645) Current (10,113) Index to Legal Periodicals Retrospective (12,175) Current ( 7,254)			
7. <u>Other</u> Software Maintenance (first year) Social Science Index (185/mo) Index to legal Periodicals (185/mo)	4,440		4,440
8. <u>Total Direct Costs</u>			
9. <u>Total Indirect Costs</u>			
10. <u>Total Project Costs</u>	150,718	50,306	201,024